

HPD UNIQUE IDENTIFIER: 26036

CLASSIFICATION: 09 64 00 Wood Flooring

PRODUCT DESCRIPTION: This HPD covers wood flooring with a 3 plies HDF core by Boa-Franc. More specifically, It covers 3 plies HDF core flooring pre-finished at Toronto's facility in Ontario, Canada. The product is made of real hardwood boards with a high density fiber core and a wood backing. Boards have uniform thicknesses and widths with micro-V joints on all four sides. The product is radiant heat approved for most wood species.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold level	Residuals/Impurities	<i>All Substances Above the Threshold Indicated Are:</i> Characterized <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No % weight and role provided for all substances except SC substances characterized according to SC guidance. Screened <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance. Identified <input type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input checked="" type="radio"/> No One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.
<input checked="" type="radio"/> Nested Materials Method	<input type="radio"/> 100 ppm	Residuals/Impurities	
<input type="radio"/> Basic Method	<input checked="" type="radio"/> 1,000 ppm	Residuals/Impurities Considered in 4 of 9 Materials	
Threshold Disclosed Per	<input type="radio"/> Per GHS SDS	Explanation(s) provided for Residuals/Impurities?	
<input type="radio"/> Material	<input type="radio"/> Other	<input checked="" type="radio"/> Yes <input type="radio"/> No	
<input checked="" type="radio"/> Product			

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE
HDF [SC:WOOD FIBER Not Screened UREA FORMALDEHYDE (UREA FORMALDEHYDE) LT-P1 | RES SLACK WAX (PETROLEUM) (SLACK WAX (PETROLEUM)) LT-1 | CAN | MUL UREA (UREA) LT-UNK WATER (WATER) BM-4 FORMALDEHYDE (FORMALDEHYDE) BM-1 | CAN | END | SKI | MUL | RES | MAM | GEN AMMONIA LT-P1 | END | MUL | RES | MAM | AQU | SKI UNDISCLOSED LT-UNK UNDISCLOSED BM-4]
SC:BIO:HARDWOOD [SC:WOOD Not Screened] SC:BIO:VENEER [SC:VENEER Not Screened] FINISHES - TORONTO [UNDISCLOSED BM-1 SILICA GEL LT-UNK UNDISCLOSED LT-P1 | SKI | MUL | EYE | AQU UNDISCLOSED LT-UNK UNDISCLOSED BM-1 UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED NoGS UNDISCLOSED NoGS UNDISCLOSED LT-P1 | MUL UNDISCLOSED LT-1 | CAN | EYE UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED LT-P1 UNDISCLOSED NoGS UNDISCLOSED LT-P1 | SKI | CAN | RES | MUL | EYE UNDISCLOSED LT-P1 | SKI | MUL | EYE UNDISCLOSED NoGS SILICON DIOXIDE BM-1 | CAN NEPHELINE SYENITE LT-UNK QUARTZ LT-1 | CAN ALUMINUM OXIDE BM-2 | RES UNDISCLOSED NoGS UNDISCLOSED NoGS] ADHESIVE F [UNDISCLOSED BM-4 UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK | MUL | RES | CAN | SKI | EYE UNDISCLOSED LT-UNK | MUL | RES | CAN UNDISCLOSED LT-UNK | CAN UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | END UNDISCLOSED LT-P1 | END | EYE UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | MUL | SKI | AQU] STAIN [SILICA GEL LT-UNK BENZOYL ISOPROPANOL LT-P1 POLY(OXY(METHYL-1,2-ETHANEDIYL)), ALPHA,ALPHA'-(2,2-DIMETHYL-1,3-PROPANEDIYL)BIS(OMEGA-((1-OXO-2-PROPEN-1-YL)OXY)- LT-P1 | MUL 2-PYRROLIDINONE, 1-ETHENYL- LT-1 | CAN | EYE ETHYLENE

Number of Greenscreen BM-4/BM3 contents ... 5

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1
 Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special conditions applied: BiologicalMaterial

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

Nested Materials Inventory at a product threshold of 1,000 ppm. This HPD covers the whole range of wood species, wood products and types of finishes and adhesives available for 3 plies HDF core flooring manufactured by Boa-Franc, which introduces ranges in material composition. Adhesives C is used to bond the hardwood lamella to the HDF core, whereas adhesives C, E and F are used interchangeably to bond the veneer backing to the HDF core. Special Conditions materials are present in the product: biological material, reaction products, defined substances without identifier, plastics and polymers. Guidelines for reporting Biological Materials (SCBioMats/2018-02-23) was followed. Other Special Conditions materials are still under development by HPDC and the manufacturer will update the HPD accordingly once these guidelines get published.

GLYCOL DIACRYLATE NoGS BIS-TRIMETHYLBENZOYL
PHENYLPHOSPHINE OXIDE LT-UNK | SKI TRIMETHYLOLPROPANE
TRIACRYLATE LT-P1 | SKI | CAN | RES | MUL | EYE TITANIUM DIOXIDE
LT-1 | CAN | END CARBON BLACK BM-1 | CAN 1,6-HEXANEDIOL
DIACRYLATE LT-P1 | SKI | MUL | EYE PPG-3 GLYCERYL
TRIACRYLATE LT-UNK] WOOD FILLER [UNDISCLOSED LT-UNK
LIMESTONE BM-3dg] ADHESIVE C [UNDISCLOSED LT-UNK
UNDISCLOSED BM-4 METHYLENE BISPHENYL DIISOCYANATE
(PURE MDI) (METHYLENE BISPHENYL DIISOCYANATE (PURE MDI))
LT-UNK | MUL | RES | CAN | SKI | EYE POLYMERIC MDI (PMDI)
(POLYMERIC MDI (PMDI)) LT-UNK | MUL | RES | CAN BUTYL
CARBITOL ACETATE LT-UNK] ADHESIVE E [UNDISCLOSED BM-4
UNDISCLOSED LT-UNK POLYMERIC MDI (PMDI) (POLYMERIC MDI
(PMDI)) LT-UNK | MUL | RES | CAN METHYLENE BISPHENYL
DIISOCYANATE (PURE MDI) (METHYLENE BISPHENYL
DIISOCYANATE (PURE MDI)) LT-UNK | MUL | RES | CAN | SKI | EYE
BUTYL CARBITOL ACETATE LT-UNK]

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario

VOC emissions: CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?

Yes

No

PREPARER: Vertima

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2021-09-08

PUBLISHED DATE: 2021-09-08

EXPIRY DATE: 2024-09-08

Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.2, available on the HPDC website at: www.hpdc-collaborative.org/hpd-2-2-standard

HDF

#: 74.2000 - 78.2000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Wood Dust, Fiber or Chips

RESIDUALS AND IMPURITIES NOTES: Information about residuals and impurities provided by suppliers.

OTHER MATERIAL NOTES: HDF is sourced from multiple suppliers. Therefore, a range in composition is observed and depends on the information given by the different suppliers.

SC:WOOD FIBER

ID: SC:Bio

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: Not Screened

#: 83.7000 - 92.0000 GS: Not Screened RC: PreC NANO: No SUBSTANCE ROLE: Structure component

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23

Category: Tree-based materials

Identifier: Multiple: Softwood and Hardwood

This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials. The pre-consumer recycled content varies among suppliers and ranges from 23,1% to 100% of pre-consumer recycled wood fibers. Weight range is due to multiple providers with different HDF composition.

UREA FORMALDEHYDE (UREA FORMALDEHYDE)

ID: 9011-05-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-09-08 7:48:17

#: 0.0000 - 12.0000 GS: LT-P1 RC: None NANO: No SUBSTANCE ROLE: Binder

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
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SUBSTANCE NOTES: Weight range is due to multiple providers with different HDF composition.

SLACK WAX (PETROLEUM) (SLACK WAX (PETROLEUM))

ID: 64742-61-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-09-08 7:48:20

#: 0.0000 - 1.0000 GS: LT-1 RC: None NANO: No SUBSTANCE ROLE: Water resistance

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
CAN	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CAN	EU - GHS (H-Statements)	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]
CAN	GHS - Australia	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]

SUBSTANCE NOTES: Weight range is due to multiple providers with differenet HDF composition.

UREA (UREA)

ID: 57-13-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:21**
 %: **0.0000 - 2.3000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Scavenger**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Weight range is due to multiple providers with differenet HDF composition.

WATER (WATER)

ID: 7732-18-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:21**
 %: **0.0000 - 4.8000** GS: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Solvent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Weight range is due to multiple providers with differenet HDF composition.

FORMALDEHYDE (FORMALDEHYDE)

ID: 50-00-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:22**
 %: **Impurity/Residual** GS: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
CAN	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
RES	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CAN	US EPA - IRIS Carcinogens	(1986) Group B1 - Probable human Carcinogen
CAN	IARC	Group 1 - Agent is Carcinogenic to humans
CAN	CA EPA - Prop 65	Carcinogen
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
MAM	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances
CAN	GHS - New Zealand	6.7A - Known or presumed human carcinogens
CAN	EU - GHS (H-Statements)	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]
CAN	GHS - Australia	H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]
SKI	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C]
MAM	EU - GHS (H-Statements)	H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3]
MAM	EU - GHS (H-Statements)	H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3]
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]
MAM	EU - GHS (H-Statements)	H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]
CAN	GHS - Korea	H350 - May cause cancer [Carcinogenicity - Category 1]
GEN	EU - GHS (H-Statements)	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]

SUBSTANCE NOTES: Residual from formaldehyde-based resins. All HDFs are compliant to CARB Phase 2. Formaldehyde content is lower than 0,13 ppm.

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:22**%: **0.0000 - 1.0000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Scavenger**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
RES	AOEC - Asthmagens	Asthmagen (Rr) - irritant-induced
MAM	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances
AQU	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
SKI	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C]
MAM	EU - GHS (H-Statements)	H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]

SUBSTANCE NOTES: Weight range is due to multiple providers with differenet HDF composition.

UNDISCLOSED

ID: **Undisclosed**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:23**%: **0.0000 - 5.9000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Weight range is due to multiple providers with differenet HDF composition. This substance is undisclosed as it is proprietary. It is part of the melaminum urea formaldehyde resin.

UNDISCLOSED

ID: **Undisclosed**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:24**%: **0.0000 - 3.1000** GS: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Diluent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Weight range is due to multiple providers with differenet HDF composition. This substance is undisclosed as it is proprietary. It is part of the melaminum urea formaldehyde resin.

SC: **BIO:HARDWOOD**%: **9.7000 - 15.3000**

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: No MATERIAL TYPE: Wood or Lumber

RESIDUALS AND IMPURITIES NOTES: Virgin wood is considered free from residuals and impurities.

OTHER MATERIAL NOTES: SpecialConditionApplied:BiologicalMaterial --- Different species of hardwood are available. Weight percentage are used to cover all the different product options and include various wood densities.

SC:WOOD

ID: **SC:Bio**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **Not Screened**

%: **100.0000** GS: **Not Screened** RC: **None** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
Hazard Screening not performed		

SUBSTANCE NOTES:
Version: SCBioMats/2018-02-23
Category: Tree-based materials
Identifier: Multiple: see substance notes

This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials. Multiple species are available: Hickory, Maple, Oak, Red Oak, Sapele, Walnut and White Oak.

SC:BIO:VENEER

%: **8.0000 - 10.5000**

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Wood or Lumber

RESIDUALS AND IMPURITIES NOTES: Virgin wood is considered free from residuals and impurities.

OTHER MATERIAL NOTES: SpecialConditionApplied:BiologicalMaterial --- Softwood veneer used for backing.

SC:VENEER

ID: **SC:Bio**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **Not Screened**

%: **100.0000** GS: **Not Screened** RC: **None** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
Hazard Screening not performed		

SUBSTANCE NOTES:
Version: SCBioMats/2018-02-23
Category: Tree-based materials
Identifier: aspen and spruce

This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials. See Other Material Notes.

FINISHES - TORONTO

%: **0.1000 - 1.0000**

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: No MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities not identified.

OTHER MATERIAL NOTES: This material groups the whole range of applicable finishes for the wood flooring (varnish). Ranges comes from all different compositions occurring among product alternatives and to not reveal exact recipe. Finishing systems are composed of 4 to 5 types of finishes. It should be noted that substances which have fillers as role can also have pigment as role.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-28 7:31:35**

#: **0.0000 - 50.0000** GS: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Film former**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

SILICA GEL ID: **112926-00-8**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-28 7:31:36**

#: **0.0000 - 10.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Weight ranges are used to cover multiple products and to not reveal exact recipe.

UNDISCLOSED ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-28 7:31:36**

#: **0.0000 - 25.0000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Plasticizer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]
SKI	EU - GHS (H-Statements)	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
EYE	EU - GHS (H-Statements)	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]
AQU	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

UNDISCLOSED ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-28 7:31:35**

#: **0.0000 - 15.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Intermediate**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:07**

#: **0.0000 - 15.0000** GS: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Intermediate**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-28 7:31:34**

#: **0.0000 - 20.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Intermediate**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-28 7:31:34**

#: **0.0000 - 45.0000** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Intermediate**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:09**

#: **0.0000 - 20.0000** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Intermediate**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:08**

#: 0.0000 - 15.0000

GS: NoGS

RC: None

NANO: No

SUBSTANCE ROLE: Intermediate

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:02**

#: 0.0000 - 10.0000

GS: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Monomer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:08**

#: 0.0000 - 15.0000

GS: LT-1

RC: None

NANO: No

SUBSTANCE ROLE: Monomer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
EYE	EU - GHS (H-Statements)	H318 - Causes serious eye damage [Serious eye damage/eye irritation - Category 1]
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:05**

#: 0.0000 - 30.0000

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Intermediate

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:09**

#: 0.0000 - 25.0000

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Intermediate

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:10**

#: 0.0000 - 30.0000

GS: NoGS

RC: None

NANO: No

SUBSTANCE ROLE: Intermediate

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:10**

#: 0.0000 - 20.0000

GS: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Binder

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-28 7:31:38**

#: 0.0000 - 20.0000

GS: NoGS

RC: None

NANO: No

SUBSTANCE ROLE: Film former

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-28 7:31:38**

#: 0.0000 - 25.0000

GS: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Curing agent

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
CAN	IARC	Group 2b - Possibly carcinogenic to humans
RES	AOEC - Asthmagens	Asthmagens (Rs) - sensitizer-induced
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]
SKI	EU - GHS (H-Statements)	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
EYE	EU - GHS (H-Statements)	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-28 7:31:39**

#: **0.0000 - 35.0000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Intermediate**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]
SKI	EU - GHS (H-Statements)	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
EYE	EU - GHS (H-Statements)	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-28 7:31:39**

#: **0.0000 - 10.0000** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Intermediate**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

SILICON DIOXIDE

ID: **7631-86-9**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-28 7:31:40**

#: **0.0000 - 15.0000** GS: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]
CAN	GHS - Australia	H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]

SUBSTANCE NOTES: Weight ranges are used to cover multiple products and to not reveal exact recipe.

NEPHELINE SYENITE

ID: **37244-96-5**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-28 7:31:40**

#: **0.0000 - 40.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Weight ranges are used to cover multiple products and to not reveal exact recipe.

QUARTZ

ID: **14808-60-7**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-28 7:31:41**

#: **0.0000 - 10.0000** GS: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CAN	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CAN	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
CAN	IARC	Group 1 - Agent is Carcinogenic to humans
CAN	GHS - New Zealand	6.7A - Known or presumed human carcinogens
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]
CAN	GHS - Australia	H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]

SUBSTANCE NOTES: Weight ranges are used to cover multiple products and to not reveal exact recipe.

ALUMINUM OXIDE

ID: **1344-28-1**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:13**

%: 0.0000 - 30.0000 GS: BM-2 RC: None NANO: No SUBSTANCE ROLE: Filler

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Weight ranges are used to cover multiple products and to not reveal exact recipe.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:06**

%: 0.0000 - 15.0000 GS: NoGS RC: None NANO: No SUBSTANCE ROLE: Intermediate

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:25**

%: 0.0000 - 20.0000 GS: NoGS RC: None NANO: No SUBSTANCE ROLE: Intermediate

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight ranges are used to cover multiple products and to not reveal exact recipe. It should be noted that this resin component is not present in final film.

ADHESIVE F

%: 0.0000 - 1.0000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities provided by supplier. Only residuals and impurities present within the chosen disclosure threshold have been included in the HPD.

OTHER MATERIAL NOTES: Alternate to Adhesive E, adhesive F is also used for binding back veneer to HDF core. Adhesive F composition is protected by a NDA and disclosed substances are those available on SDS sheets.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:47:48**

%: 36.0000 - 54.0000 GS: BM-4 RC: None NANO: No SUBSTANCE ROLE: Emulsifier

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Please refer to Other Material Notes.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:47:49**

%: 27.0000 - 45.0000

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Polymer species

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Please refer to Other Material Notes.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:47:49**

%: 5.0000 - 7.0000

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: **Monomer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RES	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]
SKI	EU - GHS (H-Statements)	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
EYE	EU - GHS (H-Statements)	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]
RES	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled [Respiratory sensitization - Category 1]

SUBSTANCE NOTES: Please refer to Other Material Notes.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:47:53**

%: 3.0000 - 5.0000

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: **Monomer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RES	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

SUBSTANCE NOTES: Please refer to Other Material Notes.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-09-08 7:47:54		
%: 0.9000 - 4.5000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Coalescent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CAN	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value		

SUBSTANCE NOTES: Please refer to Other Material Notes.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-09-08 7:47:53		
%: 0.9000 - 4.5000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Adhesive
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: Please refer to Other Material Notes.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-09-08 7:47:56		
%: 0.1000 - 0.9000	GS: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Viscosity modifier
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		

SUBSTANCE NOTES: Please refer to Other Material Notes.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-09-08 7:47:56		
%: 0.1000 - 0.9000	GS: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Curing agent

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
EYE	EU - GHS (H-Statements)	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]

SUBSTANCE NOTES: Please refer to Other Material Notes.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-27 13:47:27**
 %: **Impurity/Residual** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance present in Adhesive F at a concentration between 0.1% and 0.9%. See Other Material Notes.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:47:57**
 %: **Impurity/Residual** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKI	EU - GHS (H-Statements)	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
AQU	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]

SUBSTANCE NOTES: Substance present in Adhesive F at a concentration between 0.01% and 0.05%. See Other Material Notes.

STAIN

%: **0.0000 - 0.5000**

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: No MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were not considered; however, they should fall under the declaration threshold.

OTHER MATERIAL NOTES: Wood flooring may or may not be stained, and various stain options are available. Therefore, the material has a range of weight percentage.

SILICA GEL

ID: **112926-00-8**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:17**
 %: **0.0000 - 5.0000** GS: **LT-UNK** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Matting agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Ranges are used to cover multiple products as well as product exact recipe.

BENZOYL ISOPROPANOL

ID: 7473-98-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:12**

#: **0.0000 - 3.2000** GS: **LT-P1** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Film former**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Ranges are used to cover multiple products as well as product exact recipe.

POLY(OXY(METHYL-1,2-ETHANEDIYL)), ALPHA,ALPHA'-(2,2-DIMETHYL-1,3-PROPANEDIYL)BIS(OMEGA-((1-OXO-2-PROPEN-1-YL)OXY)-

ID: 84170-74-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:12**

#: **0.0000 - 5.0000** GS: **LT-P1** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Film former**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: Ranges are used to cover multiple products as well as product exact recipe.

2-PYRROLIDINONE, 1-ETHENYL-

ID: 88-12-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-04-06 7:59:32**

#: **0.0000 - 5.0000** GS: **LT-1** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Intermediate**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
CAN	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
EYE	EU - GHS (H-Statements)	H318 - Causes serious eye damage

SUBSTANCE NOTES: Ranges are used to cover multiple products as well as product exact recipe.

ETHYLENE GLYCOL DIACRYLATE

ID: 2274-11-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:19**

#: **0.0000 - 2.3000** GS: **NoGS** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Ranges are used to cover multiple products as well as product exact recipe.

BIS-TRIMETHYLBENZOYL PHENYLPHOSPHINE OXIDE

ID: 162881-26-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:14**%: **0.0000 - 5.0000** GS: **LT-UNK** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Stabilizer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]

SUBSTANCE NOTES: Ranges are used to cover multiple products as well as product exact recipe.

TRIMETHYLOLPROPANE TRIACRYLATE

ID: 15625-89-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:15**%: **0.0000 - 5.0000** GS: **LT-P1** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Curing agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
CAN	IARC	Group 2b - Possibly carcinogenic to humans
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]
SKI	EU - GHS (H-Statements)	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
EYE	EU - GHS (H-Statements)	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]

SUBSTANCE NOTES: Ranges are used to cover multiple products as well as product exact recipe.

TITANIUM DIOXIDE

ID: 13463-67-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:15**%: **0.0000 - 1.5000** GS: **LT-1** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]
SKI	EU - GHS (H-Statements)	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
EYE	EU - GHS (H-Statements)	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]

SUBSTANCE NOTES: Ranges are used to cover multiple products as well as product exact recipe.

PPG-3 GLYCERYL TRIACRYLATE

ID: 52408-84-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:24**

%: **0.0000 - 20.0000** GS: **LT-UNK** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Monomer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Ranges are used to cover multiple products as well as product exact recipe.

WOOD FILLER

%: **0.0000 - 0.3000**

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: **No** MATERIAL TYPE: **Polymeric Material**

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were not considered; however, they should be below the declaration threshold.

OTHER MATERIAL NOTES: Wood flooring may or may not need wood putty; hence the range of weight percentage.

UNDISCLOSEDID: **Undisclosed**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:47:46**%: **60.0000 - 70.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Ranges are used to cover multiple products as well as product exact recipe.

LIMESTONEID: **1317-65-3**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:48:14**%: **0.0000 - 30.0000** GS: **BM-3dg** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Weight range is used to cover multiple wood fillers and keep exact recipe confidential.

ADHESIVE C%: **0.0000 - 1.0000**

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: No MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Information on residuals and impurities not provided by supplier.

OTHER MATERIAL NOTES: Two-component adhesive made of polymer in emulsion and isocyanate-based crosslinker. Adhesive C is used for binding HDF core and hardwood lamella as well as binding back veneer to HDF core. Alternate to Adhesive E and F for binding back veneer.

UNDISCLOSEDID: **Undisclosed**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:47:46**%: **43.0000 - 51.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Weight range is used to cover variability in production and adhesive exact recipe. This substance is undisclosed as it is proprietary.

UNDISCLOSEDID: **Undisclosed**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:47:48**%: **34.5000 - 39.5000** GS: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Solvent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Weight range is used to cover variability in production and adhesive exact recipe. This substance is undisclosed as it is proprietary.

METHYLENE BISPHENYL DIISOCYANATE (PURE MDI) (METHYLENE BISPHENYL DIISOCYANATE (PURE MDI))

ID: 101-68-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:47:51**%: **3.5000 - 8.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Curing agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RES	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]
SKI	EU - GHS (H-Statements)	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
EYE	EU - GHS (H-Statements)	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]
RES	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled [Respiratory sensitization - Category 1]

SUBSTANCE NOTES: Weight range is used to cover variability in production and adhesive exact recipe.

POLYMERIC MDI (PMDI) (POLYMERIC MDI (PMDI))

ID: 9016-87-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:47:52**%: **3.5000 - 8.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Curing agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RES	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

SUBSTANCE NOTES: Weight range is used to cover variability in production and adhesive exact recipe.

BUTYL CARBITOL ACETATE

ID: 124-17-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:47:57**

#: **0.0100 - 1.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Solvent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Weight range is used to cover variability in production and adhesive exact recipe.

ADHESIVE E %: **0.0000 - 1.0000**

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Information on residuals and impurities provided by supplier.

OTHER MATERIAL NOTES: Two-component adhesive made of polymer in emulsion and isocyanate-based crosslinker. Adhesive E is used for binding back veneer to HDF core. Alternate to Adhesive C and F.

UNDISCLOSED ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:47:46**

#: **42.5000 - 47.0000** GS: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Solvent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Weight range is used to cover production variability and product exact recipe. This substance is undisclosed as it is proprietary.

UNDISCLOSED ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:47:47**

#: **37.0000 - 41.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Weight range is used to cover production variability and product exact recipe. This substance is undisclosed as it is proprietary.

POLYMERIC MDI (PMDI) (POLYMERIC MDI (PMDI)) ID: **9016-87-9**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-09-08 7:47:50**

#: **4.5000 - 9.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Monomer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RES	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

SUBSTANCE NOTES: Weight range is used to cover production variability and exact recipe.

METHYLENE BISPHENYL DIISOCYANATE (PURE MDI) (METHYLENE BISPHENYL DIISOCYANATE (PURE MDI))

ID: 101-68-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-09-08 7:47:50		
#: 4.5000 - 9.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Monomer
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published		
RES	AOEC - Asthmagens	Asthmagen (G) - generally accepted		
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels		
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization		
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage		
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]		
SKI	EU - GHS (H-Statements)	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]		
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]		
EYE	EU - GHS (H-Statements)	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]		
RES	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled [Respiratory sensitization - Category 1]		

SUBSTANCE NOTES: Weight range is used to cover production variability and exact recipe.

BUTYL CARBITOL ACETATE

ID: 124-17-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-09-08 7:47:55		
#: 0.5000 - 4.5000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Solvent

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Weight range is used to cover production variability and exact recipe.

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS	CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario		
CERTIFYING PARTY: Third Party	ISSUE DATE: 2017-10-	EXPIRY DATE:	CERTIFIER OR LAB: Berkeley
APPLICABLE FACILITIES: Toronto, Ontario (Canada)	17		Analytical
CERTIFICATE URL:			
CERTIFICATION AND COMPLIANCE NOTES: Certificate number: 171017-01			

VOC EMISSIONS	CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario		
CERTIFYING PARTY: Third Party	ISSUE DATE: 2021-05-	EXPIRY DATE:	CERTIFIER OR LAB: Berkeley
APPLICABLE FACILITIES: Toronto (Ontario), Canada	18		analytical
CERTIFICATE URL:			
https://clearchem.berkeleyanalytical.com/clearchem-declared/boa-franc-gp			
CERTIFICATION AND COMPLIANCE NOTES: Certificate number: 210305-01 and 210518-03			

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

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MANUFACTURER INFORMATION

MANUFACTURER: **Boa-Franc**
 ADDRESS: **3057, 108e rue**
Saint-Georges Quebec G6A 1M2, Canada
 WEBSITE: **www.boa-franc.com**

CONTACT NAME: **Technical service**
 TITLE: -
 PHONE: **(418) 227-1181 | (800) 463-1303**
 EMAIL: **technique@boa-franc.com**

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity	LAN Land toxicity	PHY Physical hazard (flammable or reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive
DEV Developmental toxicity	MUL Multiple	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	NF Not found on Priority Hazard Lists	UNK Unknown
GEN Gene mutation	OZO Ozone depletion	
GLO Global warming	PBT Persistent, bioaccumulative, and toxic	

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
BM-2 Benchmark 2 (use but search for safer substitutes)	NoGS No GreenScreen.
BM-1 Benchmark 1 (avoid - chemical of high concern)	
BM-U Benchmark Unspecified (due to insufficient data)	
LT-P1 List Translator Possible 1 (Possible Benchmark-1)	

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
Preparer Third party preparer, if not self-prepared by manufacturer
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- *a method for the assessment of exposure or risk associated with product handling or use,*
- *a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.*

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.